

6/9/14 Hull WHP

10:45, 11
1:45 left again
for P.S.

Beth Murphy
fm Murphy Dow
Tom Mitten (?)

Donna Burns
41.5M for plumbing for floods cleanup; cap map
papers 5/6/14

- ① HVHC system + 1.75
- ② Hardware's bar screen

Final Report is being drafted w/ Dinkas tho
will go to Dow + then to Ted
Kearner, Dinsmore of my interest to
roads

- Bar screen part of top.
- Gun Rock - requires pipe (big hole ->
w/ pipe)
- Also information statement

base? "Punchable" Wipes are 2 hrs problem
cleaning pumps, bar racks etc.

mine
30s
Working on education customers that
they are not all punchable.

Thin
Big electrical work + repairs

great experience to improve if protect elec. systems.

- 1. Get along from experience was learning how well if how fast they could get up beyond system if all assoc. systems
- Not a sure back up to a residence during the event.

There was a lot of concern about the bypass cutoff, straight about pumping to Cl. control chamber. Barry mentioned we was opposed to thin bar of closure of closing the diffusers.

Up with tanks almost done (electrical insp.)

Tight board working on bar screens

secondary manually bar eq. mistakes: Pumping event an effort to catch together all bar screens don't work so well

conveniently installed secondary coarse bar screen followed (2 rough months ago) with finer secondary bar screens - both Manual

92

increased wet well ~~screening~~ protocols at the plant (still 2x / yr at p.s.s)

Just clarifier currently off-line - taken off as effort to clean up structure into future. Concern of pipe from obstruction - construction debris? etc?

Barros - is if you're rebuilding clarifier consider LA end clarifiers (?) other plant can run one

Dave wants to see P.S. ~~set~~ well use this part number. Says he to buy. Force Main break.

24-hour event bc of tide wave (couldn't work). A Day 2 couple hours of discharge do to H₂O

Uses 4 trucks to get flow to plant while plant was being patterned pipes

(Chestnut had all future? purper to Hull? - lesson there in, Zeman plant should be able to

93

2, so give failure doesn't shut down whole plant)

found very close for Messer, pres. manager
..... Screening room

Step screen out of comminator from hood. Secondary coarse & fine bar screens, these will be come back - UP when new step screen is installed

MCC panel repaired (this wasn't fixed, but power restored)
Transfer from low level generators up to this room from lower level

also inspect new electrical wall. This had been flooded by water rising from pump room below.

working & cooling systems at same level are flooded. Elect heat exchangers for the water. Processors A/F for roof.

I Recommend speaking to Jason Tugan-

(94)

grit blower room

air compressor for grit - small oil leak, may lean a grams. Rep. say it will be lowered up.

PUMP ROOM - all submerged. At start of event, all pumps operating. P3 was one that failed

- check valve failures & valve created while trying to isolate

After thin failures, P4 failed & finally no longer had sufficient pumping capacity - (2x of volume)

lot of caustic in P. Room. ~~the~~ along w/ tank in other room. Result in caustic release (needed for scrubber in) All operators & responders to. Had monitors pH & chlorine hypochlorite level → back to plant for treatment when pH went over threshold level.

(95)

influent sampler 40°C

shut off tank overflow yesterday
MCA around tank makes w/ links.

still underflow cause: early indication
w/ concentration of italy under 5 that
fills tank faster than temperature;
failure of alarm,

Acknowledges that too much lime
was added ("Egg wasn't happy")
leakage from clams town tank for
operator recovery. open alarm, but
no clear complaint → Ctdl basin
to left: Not known where it
goes. John will follow-up.
(mostly H₂O)

2 primary clarifiers. 1 offline today
run 1 for summer to keep doors down.

Urban Responsible for collection;
42k ft/year getting w/ whole system
10K ft/yr covers every 10 years

Whole system has been down 2X

2 taken if there's a primary cleaning
plan - doesn't know if it's water. Sam says can do
high "job cal" used to manage
- all procedures non-transferable
(Hazen)

Use another data system to track
input & other behaviours & reports.
evaluates on monthly basis.

All samples, except pH, TRC, settleables,
sent out TSP analysis for COD & TSS.
forming & metals.
Diving for bacteria. (goal tests)

Users to do some in house, but
since flood sent everything out &
is likely to stay w/ this.

trying to get aerobic phase in
2nd reactor to improve settleability.
(Always underflow)

Some sludge & floating stuff in
final clarifier today (on-line). One
reason for summer zone in aerobics
trucks.

2 250 clarifiers all live clamp washers
in influent flow pipes need to
be brought to repair.

would prefer to have two clarifiers, but
not essential.

There's also a possibility of using unused
primary clarifier for 2ndary. Investigate
for basins that require to do so exists.

Chlorine contact - Primary effluent samples
V- 3/4 amount of contact per
permit. Separate pump is used to
collect TCC & hardness clear to col fall

2 chlorination channels, Chlorine is
added before split. Only one channel
sampled for ~~the~~ permit

Effluent transfer 3.5°C

4 effluent pumps. all good. Submersible,
but electrical control compromised,
replace with 2 on rot.

4 of 4 pumps rebuilt, ~~repaired~~ ^{replace with 2 on rot.}
has replaced.

(98)

2000 gal Chlorine tanks in aerogation
space w/ 2-3000 containment pit
waste economy. (2 built under
containment space.)

P.S. 4 Marginal leak
230 in
230 out

broken force main. Some loss backing
back into building; set off alarm.

replaced force main, because if we
couldn't get cracks or pavement where
pump came on.

trucks pumps out from main hole is
at. ; stoppers 500

broken segment replaced w/ 21" length
of ductile pipe w/ ductile clamps
couplings

6 pump stations all have SCADA
on, meters emergency, no log?
Weather reports not known if rain under
load.

(Thompson P.S. ages to still entry meters
for flow) have leak-up pumps
all but P.S. 2 have leak-up pumps
P.S. 4 does not have leak-up pumps
uses make-up for portable power.

(99)